

## **MODULAR WATER PLAY STRUCTURE**

D This application is a continuation of U.S. patent application Serial No. 10/199,396, filed July 18, 2002, which claims the benefit of U.S. Provisional Application Serial No. 60/392,949, filed June 28, 2002, both applications being incorporated by reference herein in their entireties. Cross-reference is also made to U.S. Patent No. 5,194,048, entitled "PARTICIPATORY WATER PLAY APPARATUS", issued March 16, 1993; U.S. Patent No. 5,405,294, entitled "PARTICIPATORY WATER PLAY APPARATUS", issued April 11, 1995; U.S. Patent No. 5,662,525, entitled "PARTICIPATORY WATER PLAY APPARATUS", issued September 2, 1997; and U.S. Patent No. 5,820,471, entitled "PARTICIPATORY WATER PLAY SYSTEM", issued October 13, 1998, all of which are incorporated by reference herein in their entireties.

## **FIELD OF THE INVENTION**

The present invention relates to the field of water play structures, and more particularly to a play system structure with a central pedestal that is pressurized by water.

## **BACKGROUND OF THE INVENTION**

Water theme parks and recreational water facilities have become quite popular in the last decade. Water parks have proliferated as adults and children, alike, seek the thrill and entertainment of water parks as a healthy and enjoyable way to cool off in the hot summer months. Water play structures have been developed to allow for interactive use by play participants. These play structures often, but not always, resemble multi-level play structures that one might see in parks, etc., and are generally supported by many metal columns.

Typically, such water play structures are constructed in conjunction with and sit inside a water collection pool or basin. These pools are often pre-existing, but sometimes are purpose-built, and often have unique, or at least non-standard, characteristics. Such characteristics could include pool shape and environmental anomalies.

5           There is generally also a pump associated with a water play structure system. The pump is usually designed to force water to, through, and out of various water forming or other devices found on typical water play structures. As the water exits the water forming or other device, it generally cascades downward or outward from the device. That water is typically collected in the pool or water collection basin so that the collected  
10       water may be fed back to the pump and re-circulated for essentially continuous use.

Filtration and treatment of the re-circulating water also generally occurs on a systematic and periodic basis. On occasion, additional water must also be added to the system to account for fluid loss due to any number of environmental and other factors.

15           Though many improvements have been made to water play structures over the years, there are still a number of problems which need to be addressed in such systems. One such problem relates to quickly, efficiently, and uniformly installing the water play structures into collection basins of virtually any shape, size or configuration. As stated earlier, there are generally multiple vertical support columns on each water play structure of prior designs, each column needing to be fitted and formed to the particular grade of  
20       the collection basin in which the system is to be installed. Tailoring each water play structure vertical support column to accommodate the slope of a particular grade is costly and inhibits mass production and uniform installation procedures. Accordingly, a water

play structure is needed that can be adapted to varying collection basins without having to adjust the height of several, independent, vertical support columns.

One way to address the above-stated installation and fabrication problem is to create a water play structure utilizing a central support pedestal. Such a pedestal can be installed in one location and levels of the play structure can be built therefrom. While central pedestal structures have been used in dry play and other environments, there has never been, to Applicants' knowledge, a central support pedestal structure utilized with regard to water play structures. Moreover, an additional benefit to using a central support pedestal is that the central pedestal can be utilized and adapted to transmit pressurized water from the pump to all of the water forming or other devices which may be installed upon the water play structure. In such a configuration, the central support structure pedestal serves not only a support function, but also a water movement function.

Another problem with water play structures currently known in the art is that they utilize an independent conduit structure for transmitting pressurized water to the various water play elements disposed throughout the play structure. As a result, as additional play levels, which include additional water play elements, are added to a particular play structure, additional conduit is needed to transmit the water supply to the added level, which can be costly. Thus, there is a need for a play structure that uses a single integrated structure to not only support play participants, but to transmit pressurized water to various interactive water play elements disposed throughout the structure.

Another problem with water play structures currently known in the art is that if a developer wants to link several water play structures together in a particular site, he or

she must use multiple connections to a single water supply or use multiple water supplies. Each additional structure thus requires new connection of feed pipe and the like. Thus, there is a need for a water play structure that can be adapted to accommodate additional play structures without the need for separate connections to a single water supply or to multiple water supplies.

Finally, water play structures are known that use both interactive water and non-water play elements. However, these play elements, once installed, are not typically interchangeable or easily movable from one site on a play structure to another. This limitation makes servicing the play elements difficult and restricts an operator's ability to manipulate or add new play elements to vary the play participants' recreational experience. Thus, there is a need for a water play structure which can be easily adapted to accommodate various, interactive water and non-water play elements.

#### SUMMARY OF THE INVENTION

The present invention is designed to overcome the aforementioned problems and meet the aforementioned, and other, needs. It is one aspect of the present invention to provide a multi-level, water play structure that eliminates the need for various vertical support columns, which must be individually tailored to accommodate various collection basin environmental constraints. It is another aspect of the present invention to provide a water play structure that integrates a water supply network of conduit with a central support infrastructure. It is a further aspect of the present invention to provide a water play structure that uses a single water supply line connection to transmit water to adjacently situated water play structures. It is yet a further aspect of the present invention

to provide a water play structure having modular, interactive water and non-water play elements that can be easily interchanged and moved, depending on operator needs.

In one embodiment, the deck (i.e., platform) may be interconnected to the central pedestal for additional stability or to other structures developed for such purposes.

- 5     Telescoping support columns may also be used to further support the polygonal deck (i.e., platform) and/or water supply leg

The water supply leg is made of conduit and is used to transfer pressurized water from the central pedestal to water play elements. The water supply leg may also partially or wholly support a polygonal deck to be used by play participants.

- 10     In one embodiment, the deck may be interconnected to the central pedestal for additional stability or to other structures developed for such purposes. Telescoping support columns may also be used to further support the polygonal deck and/or water supply leg.

- 15     In one embodiment, a water play structure can be linked to a second water play structure without the need for a separate water supply line. Instead, water may be delivered from the central pedestal of the first water play structure to the second water play structure.

In one embodiment, a water play structure adapted for use in a playground or park is provided, comprising:

- 20     (a) a hollow central pedestal having at least one supply line for receiving fluid;

(b) a first water supply leg, which is in fluid connection with the central pedestal and may be adapted to, at least partially, support play participants and transport fluid from the hollow central pedestal;

(c) a deck, at least partially supported by the first water supply leg; and

5 (d) at least one water play element capable of dispensing fluid received from the first water supply leg.

Other objects, features, embodiments, and advantages of the invention will be apparent from the following specification taken in conjunction with the following drawings.

#### 10 BRIEF DESCRIPTION OF DRAWINGS

Fig. 1A is a front isometric perspective view of one embodiment of a single level modular water play structure;

Fig. 1B is a right isometric perspective view of the modular play structure showing Fig. 1A;

15 Fig. 1C is a rear perspective view of the modular play structure shown in Fig. 1A;

Fig. 2 is a front perspective view of one embodiment of a first central pedestal;

Fig. 3A is an exploded, front elevation view of one embodiment of an interactive play module for the modular play structure;

Fig. 3B is a front elevation view of one embodiment of an interactive play module  
20 for the modular play structure;

Fig. 4A is a front isometric perspective view of one embodiment of a four level modular water play structure;

Fig. 4B is a front isometric perspective view of one embodiment of a four level modular water play structure with play participants;

Fig. 5A is a front isometric perspective view of one embodiment of a two level modular water play structure;

5 Fig. 5B is a slightly rotated front isometric perspective view of the two level modular water play structure shown in Fig. 5A;

Fig. 5C is a rear isometric view of the modular water play structure shown in Fig. 5A;

Fig. 6A is a front isometric perspective view of one embodiment of a three level  
10 modular water play structure;

Fig. 6B is a slightly rotated front isometric view of the modular water play structure shown in Fig. 6A;

Fig. 6C is a top perspective view of the modular water play structure shown in Fig. 6A;

15 Fig. 6D is an isometric perspective view of the underside of one embodiment of a three level modular water play structure;

Fig. 7A is a front isometric perspective view of one embodiment of a four level modular water play structure;

Fig. 7B is a front isometric perspective view of one embodiment of the  
20 infrastructure for a four level modular water play structure;

Fig. 7C is a front isometric perspective view of one embodiment of a four level modular water play structure without interactive play modules;

Fig. 7D is a front elevation view of the modular water play structure shown in Fig. 7C;

Fig. 7E is a top isometric perspective view of one embodiment of a four level modular water play structure;

5            Fig. 7F is a rear isometric perspective view of the modular play structure shown in Fig. 7D;

Fig. 7G is an isometric perspective view of the underside of the modular play structure shown in Fig. 7D;

Fig. 8A is a side isometric perspective view of one embodiment of a four level  
10   modular water play structure with adjustable support columns; and

Fig. 8B is a side elevation view of one embodiment of an adjustable support column.



The following components and numbers associated thereto are shown in the drawings and provided here for ease of reference:

<u>No.</u>	<u>Component</u>	<u>No.</u>	<u>Component</u>
2	Modular Water Play Structure	42	Spindle
3	Pool	44	Tic-Tac-Toe Module
4	First Central Pedestal	46	Gear-Oriented Module
6	Water Supply Line Connector	47	Propeller-Mounted Module
7	Cap	48	Spinning Ball Module
8	First Water Supply Leg	49	Maze-Oriented Module
10	Second Water Supply Leg	50	Slide Module
12	First Polygonal Deck	51	Second Level
14	Railing	52	Second Central Pedestal
16	Interactive Play Apparatus	54	Third Water Supply Leg
17	Water Play Element	58	Second Polygonal Deck
17a	Stairs	60	First Support Member
18	Pool Floor	62	Third Level
19	Conduit	64	Third Central Pedestal
20	First End of First Central Pedestal	66	Fourth Water Supply Leg
21	Second End of First Central Pedestal	68	Third Polygonal Deck
22	Deck Connection Means	70	Second Support Member
23	Water Supply Leg Connection Means	72	Fourth Level
24	Concrete Footing	74	Fourth Central Pedestal
24a	Spout/Conduit	76	Fourth Polygonal Deck
24b	Blind Flange	78	Third Support Member
25	Drain	80	Fourth Support Member
26	Pump	82	Adjustable Support Column
27	Interactive Play Module	84	Stationary Post
28	Frame	86	Telescoping Sleeve
30	Attachment Means	88	Aperture
32	Sprinkler	90	Bolt
34	Bucket	92	Secondary Supply Line Connection
36	Faucet	94	Gasket
38	First End of Railing	96	Valve
40	Second End of Railing		

## DETAILED DESCRIPTION

While this invention is susceptible of embodiments in many different forms, there are shown in the drawings and will herein be described in detail, preferred embodiments of the invention. The reader is to understand that the present disclosure is to be considered as an exemplification of the principles of the invention and is not intended to limit the broad aspects of the invention to the embodiments illustrated.

Referring now to the drawings, Figs. 1A, 1B, and 1C illustrate front, side, and rear isometric views of one embodiment of the inventive modular water play structure 2, which can be easily adapted to a variety of sloped basins or pools 3 (shown in Fig. 2). In general, the modular water play structure 2 is comprised of a first central pedestal 4, which has a water supply line connection 6 for transmitting water from a water supply. The first central pedestal, in addition, has multiple other ports 23 that can be used to supply water to other areas of the water play structure. The first central pedestal also has two ends. One of the ends 20 is designed to be fastened to a cement footing or other appropriate structure device installed below, at, or near a pool bottom or other appropriate area within a collection basin. A cap 7 may be removably interconnected to the other end of the first central pedestal 4 in order to contain water flow from the central pedestal 4. Obviously, in lieu of a cap 7, a separate water play element 17 can be added to communicate with a top of the first central pedestal 4. See, e.g., Fig. 8A.

The first central pedestal 4 may be connected, in known fashion, to a first water supply leg 8 and a second water supply leg 10, etc. A first polygonal deck 12 may be partially supported by the first water supply leg 8 and second water supply leg 10, etc. A

plurality of interchangeable railings 14, which also may transfer pressurized water, communicate with the first water supply leg 8 and second water supply leg 10, etc. Further, a plurality of interchangeable, interactive play apparatuses 16 may be interposed between the polygonal deck 12 and the plurality of railings 14. As further described below, various interchangeable water play elements 17 may be interconnected to the first water supply leg 8, second water supply leg 10, and plurality of railings 14. Play participants may access the polygonal deck 12 via stairs 17a, a ramp, or similar structure.

As shown in Fig. 2, the first central pedestal 4 acts as a main conduit for supplying water to the modular water play structure 2. In addition, the first central pedestal 4 serves as the central support structure for the modular water play structure 2. Use of such a structure eliminates the need for multiple, individual vertical support columns which often must be individually tailored to the particular configuration of a pool 3, such as the slope of the pool floor 18.

In one preferred embodiment, the first central pedestal 4 is comprised of a substantially cylindrical conduit 19 with a first end 20 and a second end 21. The pedestal also has a means 22 (e.g., a flange) for connecting a first polygonal deck 12 to the conduit 19, a means 23 (e.g., flange) for connecting the first and second water supply legs 8, 10 to the conduit 19, and the water supply line connection 6. The first end 20 of the first central pedestal 4 may be anchored beneath the pool floor 18 via a concrete footing 24, which varies in shape and size according to the number of polygonal decks supported thereby and other environmental factors. In one embodiment, the concrete footing 24 is six to eight foot square and two to three foot thick, with rebar reinforcements. J-bolts are

optionally used to secure the first end 20 of the conduit 19 to the concrete footing 24. It will be understood by those skilled in this art that other appropriate devices and/or members can be used to secure the first central pedestal 4 to a collection basin surface.

If no additional polygonal decks are desired, the second end 20 of the first central  
5 pedestal 4 may be connected in any suitable manner to a cap 7, which is designed to prevent water from flowing out of the second end 21 of the first central pedestal 4. Alternatively, the first central pedestal 4 can be manufactured with a closed second end 21.

As shown in Figs. 1A-1C, the first water supply leg 8 and second water supply leg  
10 10 may partially support the first polygonal deck 12 and may transmit pressurized water to water play elements 17 generally disposed upon railings 14 or on the first and second water supply legs 8, 10, or both. In one embodiment, the first and second water supply legs 8, 10 are pipe-like and L-shaped.

As one ordinarily skilled in the art can appreciate, other manners or shapes of  
15 pipe, tubing, or other functionally shaped water-carrying conduit of sufficient strength and size to transmit pressurized fluid are within the spirit and scope of the present invention. Moreover, the present invention is not limited to a particular type of water play element 17. For example, a faucet 36 and tipping buckets 34 are shown in Fig. 1A, but other water play elements 17 may be substituted for these elements or these elements  
20 may be moved to different positions on the structure.

Blind flanges 24b may be used to cap the first water supply leg 8 and second water supply leg 10 when those water transfer positions are not in use. Additional

conduit 24a may be attached to flanges formed in first water supply leg 8 and second water supply leg 10 as may be necessary. Such conduit 24a can be used to supply pressurized water to additional water play structures or to other types of water play elements, play pods, etc. Alternatively, the conduit 24a could be simply used as a water spout.

As previously noted, water may be emitted from various water play elements 17 positioned about the water play structure 2. The emitted water is collected in the pool 3. The pool 3 may vary from a substantially zero depth to a depth of several feet depending on the needs of the operator. As shown in Fig. 2, in one embodiment, the pool 3 is further comprised of a drain 25, which allows the water to circulate back to the water supply. The drain 25 may communicate with a central water supply or the fluid exiting the drain may be held in a storage facility. In either case, a pump 26, which can be positioned on the pool floor 18, or on a skid which is anchored to the water play structure 2, or remote thereto, may be used to move fresh and/or re-circulated water to the water play structure 2. As one skilled in the art can appreciate, the size and power of the pump 26 will be dictated by the volume of water to be moved, the distance that the water must travel, the pressure required to operate the water play elements 17 on various levels of the modular water play structure 2, etc.

An additional aspect of the present invention is to provide the ability to quickly and easily modify and interchange, if necessary, interactive play modules 27 (see, e.g., Fig. 3A) to accommodate operator needs. In one embodiment, the interactive play module 27 is comprised of at least one railing 14 (see Fig. 3B) interconnected to a

frame 28, which houses an interactive play apparatus 16 and which may be secured to the first polygonal deck 12 via an appropriate attachment means 30. Such an attachment means 30 may be a flange, bracket, bolts, weld, epoxy glue, rivets, or other similar device. This modular configuration provides a myriad of combinations for the operator and facilitates quick replacement of the entire interactive play module 27, if desired. See Figs. 3A and 3B. This ease of interchangeability also facilitates servicing of the play structure 2 and the play elements 17, and simplifies design and manufacture of both the interactive play modules 27 and overall play structure 2.

As shown in Figs. 1A, 3A, and 3B, the railing 14 can be swapped with various water play elements 17 (e.g., sprinkler 32, series of swiveling buckets 34 coupled to a faucet 36, etc.). In one embodiment, the railing 14 has a first end 38 and a second end 40, each of which is preferably flanged so that the railing 14 can be easily removed for servicing or replacement. The railing 14 can be made out of metal, metal alloy, or other material having similar strength and durability characteristics, or a combination thereof.

The railing frame 28 can house spindles 42 (see Fig. 3B), the interactive play apparatus 16 (see Fig. 3A), or both. As shown in Fig. 1A, different interactive play apparatuses 16, such as a Tic-Tac-Toe module 44, a gear-oriented module 46, a propeller-mounted module 47, a spinning ball module 48, a maze-oriented module 49, or a slide module 50 (not shown), can be easily interchanged within an interactive play module 27, depending on the needs of the operator. If the operator so desires, the entire interactive play module 27 can also be removed and replaced by simply disconnecting the attachment means 30 and the first end 38 and, if necessary, the second end 40 of the

railing 14, and replacing the interactive play module 27 with another pre-assembled interactive play module 27.

The aforementioned interactive play apparatuses 16 and water play elements 17 are intended to be for illustrative purposes only. As one ordinarily skilled in the art can appreciate, other interactive play apparatuses 16 and/or water play elements 17 may be used alone, or in combination, without departing from the spirit and scope of the present invention.

Another aspect of the present invention is to provide a modular water play structure 2 which can easily adapt to accommodate additional play participants. Depending on the projected number of play participants, additional polygonal decks can easily be added to the structure, building off of the first central pedestal 4. This is accomplished by adding additional decks and corresponding water supply legs to the central pedestal 4.

As shown in Figs. 4A and 4B, in one embodiment, up to a four level water play structure 2 can be achieved by tiering polygonal decks in a staircase manner. The decks may be located at different heights on the central pedestal by adding central pedestal sections. Each additional polygonal deck may be supported, in part, by the polygonal deck that precedes it.

For instance, in order to achieve a second level 51, a second central pedestal 52 is connected to the first central pedestal 4 that is anchored near, to, or beneath the pool floor 18. See Figs. 5A-5C. A third water supply leg 54 may be connected to the second central pedestal 52 so that water can be carried to water play elements 17 positioned on

railings 14 on the second level 51 of the water play structure 2. In addition, the third water supply leg 54 may partially support a second polygonal deck 58. The second polygonal deck 58 may also be partially supported by the second water supply leg 10 via a first support member 60. In one embodiment, additional stairs 17a are positioned from  
5 the first polygonal deck 12 to an edge of the second polygonal deck 58.

If a third level 62 to the play structure is desired, as shown in Figs. 6A-6D, a third central pedestal 64 may be connected to the second central pedestal 52. Similarly, a fourth water supply leg 66 may be connected to the third central pedestal 64 in order to carry water to further water play elements 17 on the third level 62 and to partially support  
10 a third polygonal deck 68. The third polygonal deck 68 may be supported in a similar fashion, as described above, by a second support member 70 that spans between the second polygonal deck 58 and the third polygonal deck 68. Stairs 17a may also connect the second polygonal deck 58 and third polygonal deck 68 so that play participants can freely move between the second and third levels 51, 62.

15 Turning now to Figs. 3 and 7A-7G, if the operator requires a fourth level 72, a fourth central pedestal 74 may be connected to the third central pedestal 64. In one embodiment, the fourth central pedestal 74 is further comprised of means 22 (e.g., a flange or bracket) for connecting a fourth polygonal deck 76 to the fourth central pedestal 74. In this embodiment, no water supply leg is used to support the fourth  
20 polygonal deck 76. Rather, the fourth polygonal deck 76 is supported by third and fourth support members 78, 80, respectively. However, the first water supply leg 8 and fourth water supply leg 66 are used to supply pressurized water to water play elements 17 which



may be installed on the fourth polygonal deck 76. The third support member 78 spans between the fourth water supply leg 66 and the fourth polygonal deck 76; the fourth support member 80 spans between the first water supply leg 8 and the fourth polygonal deck 76. Again, stairs 17a may be added to interconnect the third polygonal deck 68 with  
5 the fourth polygonal deck 76.

In order to provide further stability to the modular water play structure, as shown in Figs. 8A and 8B, optional, adjustable support columns 82 can be positioned beneath the first, second, third, or fourth water supply legs 8, 10, 54, and 66, respectively. Each adjustable support column 82 can be extended to accommodate any height differences  
10 between the water supply legs and the pool floor 18.

In one preferred embodiment, each adjustable column 82 is comprised of a stationary post 84 in telescopic relationship with a sleeve 86. The stationary post 84 may be removably or fixedly connected to the pool floor 18 by bolts, glue, or other securement methods known in the art. Alternatively, the stationary post 84 may simply  
15 rest upon the pool floor 18. Even if the stationary post 84 is not secured to the pool floor 18 or, for that matter, if it rests above the pool floor 18, it will have the effect in many instances of supporting deck structure, especially if the deck structure begins to oscillate as a result of play participant activity. Once the telescoping sleeve 86 is adjusted to a proper height to either partially or fully support a polygonal deck, the  
20 telescoping sleeve 86 may be fixedly or removably connected to either a water supply leg and/or the underside of a polygonal deck via an attachment device, which may include a flange, bracket, or other coupling mechanism known in the art.

In order to ensure that the telescoping sleeve 86 stays in position, in one embodiment, the telescoping sleeve 86 is further comprised of a plurality of apertures 88 to accept bolts 90, which are temporarily or permanently tightened against the stationary post 84. See Fig. 8B. As one ordinarily skilled in the art can appreciate, other methods of adjusting and securing the adjustable support column 82 are within the spirit and scope of the present invention. Moreover, the adjustable support column 82, as well as the modular water play structure 2 generally, can be made out of a rust-resistant, durable metal, metal alloy, or other material having similar strength and non-corrosiveness characteristics, or a combination thereof.

10 If four levels are insufficient to accommodate the number of play participants, additional modular water play structures 2 may be added to the overall system. In such a preferred embodiment, the first central pedestal 4 may be modified to include a second supply line connection 92 (not shown, but identical to water supply line connection 6 in Fig. 2), which connects the first central pedestal 4 to an identical first central pedestal 4  
15 that is similarly anchored at, near, or beneath a pool floor 18 at a sufficient distance from the first modular water play structure 2. The second modular play structure 2 can be built to the desired number of levels in the manner described above. Additional modular water play structures 2 can be added in like fashion, if desired.

The first, second, third, and fourth central pedestals 4, 52, 64, 74, respectively,  
20 and first, second, third and fourth water supply legs 8, 10, 54, and 66, respectively, are preferably made out of a rust-resistant, durable metal, such as stainless steel or other metals having similar strength and durability characteristics, and are to be of sufficient

size and strength to safely support the modular water play structure 2 and play participants while also supplying pressurized water to the various interconnected water play elements 17. Similarly, all manners or shapes of pipe, tubing, or other functionally shaped water-carrying channel of sufficient strength may be used for the above-described central pedestals and water supply legs and still be within the spirit and scope of the invention.

As one ordinarily skilled in the art can appreciate, the first, second, third, and fourth support members 60, 70, 78, and 80, respectively, can take various forms and be constructed of various materials and still be within the spirit and scope of the present invention. For example, railing/spindle configurations, as shown in Figs. 3 and 5A or horizontally-positioned I-beams (not shown) can be used.

In addition, the previously described interconnections between the central pedestals, water supply legs, and railings can take various forms. For instance, coupling assemblies, threaded conduit, or other connections that are designed to accommodate pressurized fluids are well within the scope of the present invention. Moreover, gaskets 94 (shown in Fig. 7B) may optionally be used between some or all points of connection between water transferring conduit.

The first, second, third, and fourth polygonal decks 12, 58, 68, and 76, respectively, can also vary in shape, thickness, and size. Preferably, each polygonal deck has at least three sides and is made from fiberglass or other material providing a non-slip, non-corrosive, non-degrading surface. As shown in Fig. 7C, in one embodiment, each polygonal deck is hexagonal. Various means for connecting each polygonal deck to each

respective central pedestal or water supply leg can be used, such as flanged connections or brackets. Any such connection method is deemed within the skill of those working in this art.

5 In order to operate the water play elements 17 on the various levels of the modular water play structure 2, play participants turn valves 96 (as shown in Fig. 1B), which are strategically placed along the railings 14 or other areas of the system. Various valves 96, such as butterfly, gate, etc., may be used alone, or in combination and still be within the scope of the present invention. Water flow may also be increased or decreased to a particular section of the modular water play structure 2 by adjusting the respective  
10 valve 96.

As noted above, the pool 3 can vary in depth, size and configuration. As one ordinarily skilled in the art can appreciate, filtration and water structures are to be incorporated per local building code or other requirements.

While an effort has been made to describe some alternatives to the preferred  
15 embodiment, other alternatives will readily come to mind to those skilled in the art. Therefore, it should be understood that the invention may be embodied in other specific forms without departing from the spirit or central characteristics thereof. The present examples and embodiments, therefore, are to be considered in all respects as illustrative and not restrictive, and the invention is not intended to be limited to the details given  
20 herein.